

### 3.6 KF57<sup>®</sup> Composite Slab Properties Tables

**Table 3.6.A** KF57 Composite Slab Properties - 0.60 BMT

**Table 3.6.B** KF57 Composite Slab Properties - 0.75 BMT

**Table 3.6.C** KF57 Composite Slab Properties - 1.00 BMT

## KF57® Composite Slab Properties



**KF57®**

**0.60**

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm <sup>3</sup> /mm <sup>2</sup> )	Design Strength in Positive Bending $\phi M_{uo+}$ (kNm/m)	Gross Second Moment of Area - I (x10 <sup>6</sup> mm <sup>4</sup> /m)★	Cracked Section Second Moment of Area - I <sub>cr</sub> (x10 <sup>6</sup> mm <sup>4</sup> /m)★
100	2.41	100	30.90	95.59	35.79
105	2.53	105	33.00	110.05	40.21
110	2.65	110	35.10	125.93	44.95
115	2.77	115	37.20	143.31	49.93
120	2.89	120	39.30	162.19	55.30
125	3.01	125	41.40	182.65	60.91
130	3.13	130	43.50	204.77	66.91
135	3.25	135	45.70	228.63	73.15
140	3.37	140	47.80	254.22	79.71
145	3.49	145	49.90	281.71	86.66
150	3.61	150	52.00	311.10	93.85
155	3.73	155	54.10	342.47	101.36
160	3.85	160	56.20	375.80	109.18
165	3.97	165	58.30	411.27	117.39
170	4.10	170	60.40	448.96	125.85
175	4.22	175	62.50	488.77	134.62
180	4.34	180	64.60	530.96	143.78
185	4.46	185	66.70	575.44	153.18
190	4.58	190	68.80	622.28	162.98
195	4.70	195	70.90	671.66	173.01
200	4.82	200	73.00	723.56	183.44
205	4.94	205	75.10	777.99	194.18
210	5.06	210	77.20	835.19	205.24
215	5.18	215	79.30	894.99	216.62
220	5.30	220	81.40	957.64	228.31
225	5.42	225	83.50	1023.13	240.32
230	5.54	230	85.60	1091.54	252.72
235	5.66	235	87.70	1162.88	265.36
240	5.78	240	89.80	1237.30	278.40
245	5.90	245	91.90	1314.80	291.75
250	6.02	250	94.00	1395.46	305.41

Table 3.6.A KF57® Composite Slab Properties - 0.60 BMT

### Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

**KF57® Composite Slab Properties**



**KF57®**

**0.75**

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm <sup>3</sup> /mm <sup>2</sup> )	Design Strength in Positive Bending $\phi M_{uo+}$ (kNm/m)	Gross Second Moment of Area - I (x10 <sup>6</sup> mm <sup>4</sup> /m)★	Cracked Section Second Moment of Area - I <sub>cr</sub> (x10 <sup>6</sup> mm <sup>4</sup> /m)★
100	2.41	100	35.4	98.43	42.34
105	2.53	105	39.6	113.21	47.64
110	2.65	110	42.3	129.40	53.25
115	2.77	115	44.9	147.18	59.25
120	2.89	120	47.6	166.37	65.65
125	3.01	125	50.2	187.31	72.44
130	3.13	130	52.8	209.82	79.55
135	3.25	135	55.4	234.16	87.06
140	3.37	140	58.1	260.31	94.96
145	3.49	145	60.7	288.27	103.25
150	3.61	150	63.3	318.13	111.94
155	3.73	155	66.0	350.05	120.95
160	3.85	160	68.6	384.02	130.43
165	3.97	165	71.2	420.12	140.23
170	4.09	170	73.8	458.36	150.42
175	4.21	175	76.5	498.89	161.00
180	4.33	180	79.1	541.62	172.06
185	4.45	185	81.7	586.81	183.44
190	4.57	190	84.4	634.45	195.21
195	4.70	195	87.0	684.54	207.38
200	4.82	200	89.6	737.15	220.02
205	4.94	205	92.2	792.45	232.97
210	5.06	210	94.9	850.36	246.32
215	5.18	215	97.5	911.03	260.07
220	5.30	220	100.1	974.54	274.29
225	5.42	225	102.7	1040.90	288.82
230	5.54	230	105.4	1110.19	303.83
235	5.66	235	108.0	1182.47	319.24
240	5.78	240	110.6	1257.84	335.04
245	5.90	245	113.3	1336.29	351.16
250	6.02	250	115.9	1417.97	367.82

**Table 3.6.B KF57® Composite Slab Properties - 0.75 BMT**

**Parameters**

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

## KF57® Composite Slab Properties



**KF57®**

**1.00**

Dcs (mm)	Slab Weight (kPa)	Equivalent Concrete Quantity (mm <sup>3</sup> /mm <sup>2</sup> )	Design Strength in Positive Bending $\phi M_{u0+}$ (kNm/m)	Gross Second Moment of Area - I (x10 <sup>6</sup> mm <sup>4</sup> /m)★	Cracked Section Second Moment of Area - I <sub>cr</sub> (x10 <sup>6</sup> mm <sup>4</sup> /m)★
100	2.41	100	35.4	103.02	52.14
105	2.53	105	39.6	118.34	58.78
110	2.65	110	44.1	135.09	65.81
115	2.77	115	48.8	153.42	73.31
120	2.89	120	53.8	173.33	81.29
125	3.01	125	59	194.81	89.74
130	3.13	130	64.4	218.12	98.67
135	3.25	135	70.1	243.16	108.15
140	3.37	140	73.8	270.02	118.03
145	3.49	145	77.3	298.86	128.45
150	3.61	150	80.8	329.59	139.36
155	3.73	155	84.3	362.37	150.73
160	3.85	160	87.8	397.29	162.66
165	3.97	165	91.3	434.34	175.06
170	4.09	170	94.8	473.61	188.02
175	4.21	175	98.3	515.16	201.37
180	4.33	180	101.8	559.08	215.35
185	4.45	185	105.3	605.38	229.73
190	4.57	190	108.8	654.12	244.66
195	4.70	195	112.3	705.39	260.15
200	4.82	200	115.9	759.35	276.11
205	4.94	205	119.4	815.91	292.62
210	5.06	210	122.9	875.16	309.60
215	5.18	215	126.4	937.18	327.14
220	5.30	220	129.9	1002.12	345.15
225	5.42	225	133.4	1069.90	363.72
230	5.54	230	136.9	1140.68	382.83
235	5.66	235	140.4	1214.47	402.43
240	5.78	240	143.9	1291.41	422.57
245	5.90	245	147.4	1371.44	443.19
250	6.02	250	150.9	1454.71	464.36

**Table 3.6.C KF57® Composite Slab Properties - 1.00 BMT**

### Parameters

★ Values are given in transformed concrete sections, 25MPa.

Modular ratio 7.9.

## 3.8 KF57® Composite Slab Span Tables

<b>Table 3.8.A</b>	KF57 Composite Slab Span Table - Single Span 0.60 BMT
<b>Table 3.8.B</b>	KF57 Composite Slab Span Table - Single Span 0.75 BMT
<b>Table 3.8.C</b>	KF57 Composite Slab Span Table - Single Span 1.00 BMT
<b>Table 3.8.D</b>	KF57 Composite Slab Span Table - Double Span 0.60 BMT
<b>Table 3.8.E</b>	KF57 Composite Slab Span Table - Double Span 0.75 BMT
<b>Table 3.8.F</b>	KF57 Composite Slab Span Table - Double Span 1.00 BMT
<b>Table 3.8.G</b>	KF57 Composite Slab Span Table - Continuous Spans 0.60 BMT
<b>Table 3.8.H</b>	KF57 Composite Slab Span Table - Continuous Spans 0.75 BMT
<b>Table 3.8.I</b>	KF57 Composite Slab Span Table - Continuous Spans 1.00 BMT

### Composite Slab Span Tables Notes

The composite slab span tables are to be used to design KingFlor composite slabs that do not have a fire requirement and meet the assumptions below. For a fire rated slab refer to the fire resistance tables. For designs outside the parameters below and specified on the tables refer to the KingFlor Designer Suite or your local Fielders representative. For propping requirements refer to the temporary propping tables.

#### Notation

Dcs = depth of composite slab.  
L = Span between permanent supports.  
Bars - N12@200 indicates N12 bars at 200mm centres.

#### Loads

Construction Live Load 1.0kPa  
Ceiling & Services Load 0.35kPa  
Partitions Load 0.5kPa

#### Short & Long-Term Factors

Short-term factor  $\psi = 0.7$   
Long-term factor  $\psi = 0.4$   
Combination-term factor  $\psi = 0.4$

#### Concrete Properties

Normal wet density of concrete 2400kg/m<sup>3</sup>  
Normal dry density of concrete 2350 kg/m<sup>3</sup>  
Concrete strength  $f_c = 25\text{MPa}$   
Exposure Classification A1 with moderate crack control  
Cover to top reinforcement is 30mm

### Reinforcing

Steel Yield Strength  $f_{sy} = 500\text{MPa}$

#### Mesh

Mesh is to be located in the top of the slab. Where the mesh code ends with a 'T' (eg. RL918T), the larger bars are to be located perpendicular to the decking ribs with the smaller perpendicular bars on top. Laps in mesh are to occur midspan.

#### Bars

Bars where required, are to be placed over internal permanent supports, on top of mesh. Length of bars are to be 0.6 x larger span + width of support. The bars are to be located 0.3 x span from edge of support for internal supports.

#### Spans

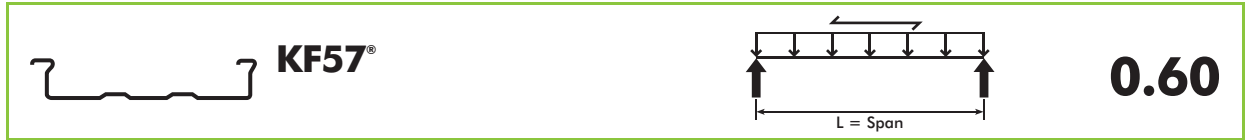
Spans L1, L2, L3 etc. cannot differ by more than 5% from both L1 and Ln.

Span is considered to be the larger of L1, L2...Ln.

Support width 50mm

The composite slab tables have been prepared with the assumptions stated above. More refined designs can be obtained from Fielders or by using the KingFlor Designer Suite. Contact your local Fielders representative for design assistance.

## KF57® Composite Slab Spans Single Spans 0.60 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	-	105	SL72	-	105	SL72	-
1,250	105	SL72	-	105	SL72	-	105	SL72	-
1,500	105	SL72	-	105	SL72	-	105	SL72	-
1,750	105	SL72	-	105	SL72	-	105	SL72	-
2,000	105	SL72	-	105	SL72	-	105	SL72	-
2,250	105	SL72	-	105	SL72	-	105	SL72	-
2,500	105	SL72	-	105	SL72	-	105	SL72	-
2,750	105	SL72	-	105	SL72	-	105	SL72	-
3,000	105	SL72	-	105	SL72	-	110	SL82	-
3,250	105	SL72	-	105	SL72	-	120	SL82	-
3,500	105	SL72	-	115	SL82	-	130	SL92	-
3,750	115	SL82	-	125	SL92	-	140	SL92	-
4,000	120	SL92	-	140	SL92	-	155	SL102	-
4,250	135	SL92	-	150	SL102	-	165	SL81	-
4,500	145	SL102	-	160	SL81	-	175	SL81	-
4,750	155	SL102	-	170	SL81	-	195	RL918T	-
5,000	165	SL81	-	180	SL81	-	210	RL918T	-
5,250	175	SL81	-	200	RL918T	-	225	RL1018T	-
5,500	195	RL918T	-	215	RL918T	-	240	RL1018T	-
5,750	210	RL918T	-	230	RL1018T	-	250	RL1018T	-
6,000	225	RL1018T	-	245	RL1018T	-	270	RL1118T	-
6,250	240	RL1018T	-	260	RL1018T	-	285	RL1118T	-
6,500	255	RL1018T	-	275	RL1118T	-	300	RL1118T	-
6,750	270	RL1118T	-	290	RL1118T	-	320	RL1218T	-
7,000	285	RL1118T	-	310	RL1118T	-	335	RL1218T	-

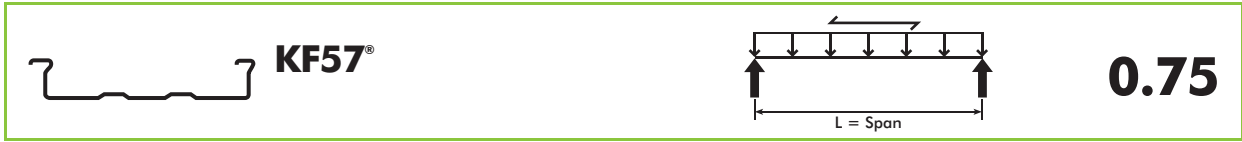
**Table 3.8.A** KF57® Composite Slab Spans - Single Spans 0.60 BMT

**Deflection Criteria**

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Single Spans 0.75 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	-	105	SL72	-	105	SL72	-
1,250	105	SL72	-	105	SL72	-	105	SL72	-
1,500	105	SL72	-	105	SL72	-	105	SL72	-
1,750	105	SL72	-	105	SL72	-	105	SL72	-
2,000	105	SL72	-	105	SL72	-	105	SL72	-
2,250	105	SL72	-	105	SL72	-	105	SL72	-
2,500	105	SL72	-	105	SL72	-	105	SL72	-
2,750	105	SL72	-	105	SL72	-	105	SL72	-
3,000	105	SL72	-	105	SL72	-	105	SL72	-
3,250	105	SL72	-	105	SL72	-	115	SL82	-
3,500	105	SL72	-	115	SL82	-	130	SL92	-
3,750	110	SL82	-	125	SL92	-	140	SL92	-
4,000	120	SL82	-	135	SL92	-	150	SL102	-
4,250	130	SL92	-	145	SL102	-	165	SL81	-
4,500	140	SL102	-	155	SL81	-	175	SL81	-
4,750	155	SL102	-	170	SL81	-	190	RL918T	-
5,000	160	SL81	-	180	SL81	-	205	RL918T	-
5,250	175	SL81	-	200	RL918T	-	220	RL918T	-
5,500	195	RL918T	-	215	RL918T	-	235	RL1018T	-
5,750	210	RL918T	-	230	RL1018T	-	250	RL1018T	-
6,000	225	RL1018T	-	240	RL1018T	-	265	RL1118T	-
6,250	235	RL1018T	-	255	RL1018T	-	280	RL1118T	-
6,500	250	RL1018T	-	270	RL1118T	-	295	RL1118T	-
6,750	265	RL1118T	-	290	RL1118T	-	315	RL1118T	-
7,000	280	RL1118T	-	305	RL1118T	-	330	RL1218T	-

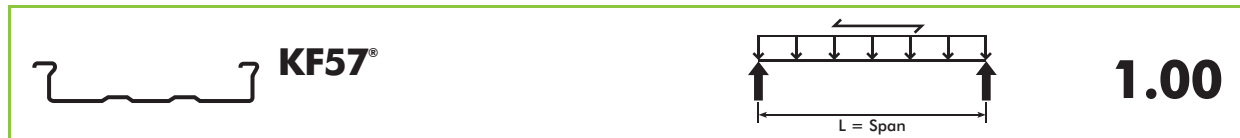
**Table 3.8.B KF57® Composite Slab Spans - Single Spans 0.75 BMT**

**Deflection Criteria**

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Single Spans 1.00 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	105	SL72	-	105	SL72	-	105	SL72	-
1,250	105	SL72	-	105	SL72	-	105	SL72	-
1,500	105	SL72	-	105	SL72	-	105	SL72	-
1,750	105	SL72	-	105	SL72	-	105	SL72	-
2,000	105	SL72	-	105	SL72	-	105	SL72	-
2,250	105	SL72	-	105	SL72	-	105	SL72	-
2,500	105	SL72	-	105	SL72	-	105	SL72	-
2,750	105	SL72	-	105	SL72	-	105	SL72	-
3,000	105	SL72	-	105	SL72	-	105	SL72	-
3,250	105	SL72	-	105	SL72	-	115	SL82	-
3,500	105	SL72	-	110	SL82	-	125	SL92	-
3,750	110	SL82	-	120	SL82	-	135	SL92	-
4,000	120	SL82	-	130	SL92	-	150	SL102	-
4,250	130	SL92	-	145	SL102	-	160	SL81	-
4,500	140	SL92	-	155	SL102	-	170	SL81	-
4,750	150	SL102	-	165	SL81	-	185	SL81	-
5,000	160	SL81	-	180	SL81	-	200	RL918T	-
5,250	175	SL81	-	195	RL918T	-	215	RL918T	-
5,500	185	SL81	-	210	RL918T	-	230	RL1018T	-
5,750	205	RL918T	-	225	RL1018T	-	245	RL1018T	-
6,000	215	RL918T	-	240	RL1018T	-	260	RL1018T	-
6,250	230	RL1018T	-	255	RL1018T	-	275	RL1118T	-
6,500	250	RL1018T	-	265	RL1118T	-	290	RL1118T	-
6,750	260	RL1018T	-	280	RL1118T	-	310	RL1118T	-
7,000	275	RL1118T	-	300	RL1118T	-	325	RL1218T	-

**Table 3.8.C** KF57® Composite Slab Spans - Single Spans 1.00 BMT

### Deflection Criteria

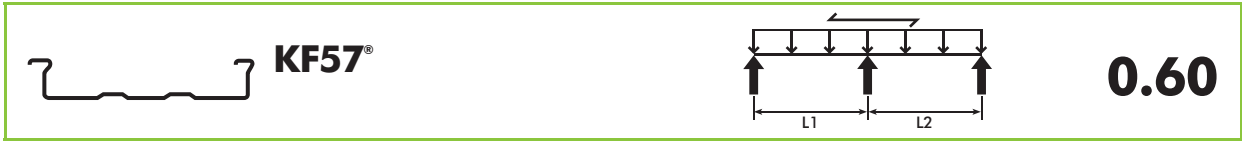
Construction Deflection = L/240

Incremental Deflection = L/500

Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Double Span 0.60 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@300
3,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@250
3,750	110	SL82	N12@400	110	SL82	N12@300	110	SL82	N12@200
4,000	110	SL82	N12@400	110	SL82	N12@250	130	SL92	N12@250
4,250	110	SL82	N12@350	110	SL82	N12@200	140	SL92	N12@225
4,500	110	SL82	N12@275	115	SL92	N12@200	145	SL102	N12@225
4,750	110	SL82	N12@225	125	SL92	N12@200	145	SL102	N12@200
5,000	115	SL82	N12@225	135	SL92	N12@200	160	SL81	N12@250
5,250	125	SL92	N12@225	140	SL92	N12@175	160	SL81	N12@200
5,500	135	SL92	N12@225	150	SL102	N12@200	175	SL81	N12@200
5,750	140	SL92	N12@200	155	SL81	N12@200	190	RL918T	N12@250
6,000	150	SL102	N12@200	165	SL81	N12@175	205	RL918T	N12@250
6,250	155	SL81	N12@200	175	SL81	N16@300	205	RL918T	N12@225
6,500	165	SL81	N12@200	180	SL81	N16@300	205	RL918T	N16@200
6,750	175	SL81	N12@200	195	RL918T	N16@225	220	RL918T	N16@200
7,000	185	SL81	N12@200	205	RL918T	N16@200	225	RL1018T	N16@175

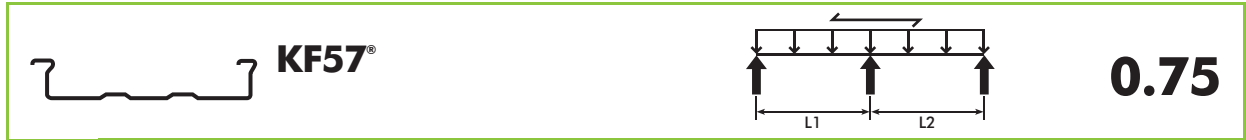
**Table 3.8.D KF57® Composite Slab Spans - Double Span 0.60 BMT**

**Deflection Criteria**

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Double Span 0.75 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@325
3,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@250
3,750	110	SL82	N12@400	110	SL82	N12@325	115	SL82	N12@225
4,000	110	SL82	N12@400	110	SL82	N12@250	125	SL92	N12@225
4,250	110	SL82	N12@350	120	SL82	N12@250	135	SL92	N12@225
4,500	110	SL82	N12@275	130	SL92	N12@250	145	SL102	N12@225
4,750	110	SL82	N12@225	135	SL92	N12@225	150	SL102	N12@200
5,000	120	SL82	N12@200	135	SL92	N12@200	160	SL81	N12@225
5,250	125	SL92	N12@225	140	SL92	N12@175	170	SL81	N12@225
5,500	130	SL92	N12@200	145	SL102	N12@175	185	SL81	N12@225
5,750	140	SL92	N12@200	155	SL102	N12@175	195	RL918T	N16@250
6,000	150	SL102	N12@200	165	SL81	N12@175	195	RL918T	N16@225
6,250	155	SL102	N16@325	175	SL81	N16@300	195	RL918T	N16@200
6,500	165	SL81	N16@300	185	SL81	N16@300	205	RL918T	N16@200
6,750	170	SL81	N16@300	195	RL918T	N16@225	220	RL918T	N16@200
7,000	180	SL81	N16@300	205	RL918T	N16@200	225	RL1018T	N16@175

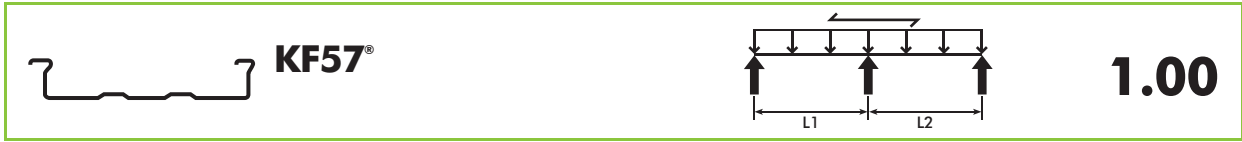
**Table 3.8.E KF57® Composite Slab Spans - Double Span 0.75 BMT**

### Deflection Criteria

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Double Span 1.00 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@325
3,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@250
3,750	110	SL82	N12@400	110	SL82	N12@325	115	SL82	N12@225
4,000	110	SL82	N12@400	110	SL82	N12@250	125	SL92	N12@225
4,250	110	SL82	N12@350	115	SL82	N12@200	135	SL92	N12@225
4,500	110	SL92	N12@325	120	SL82	N12@200	145	SL102	N12@225
4,750	110	SL92	N12@250	135	SL92	N12@225	150	SL102	N12@200
5,000	115	SL92	N12@225	135	SL92	N12@200	160	SL81	N12@200
5,250	125	SL92	N12@200	140	SL102	N12@200	160	SL81	N12@200
5,500	130	SL92	N12@200	150	SL102	N12@200	175	SL81	N12@200
5,750	135	SL92	N12@200	150	SL81	N12@200	190	RL918T	N16@250
6,000	145	SL102	N12@200	165	SL81	N12@200	205	RL918T	N16@250
6,250	155	SL102	N12@200	170	SL81	N16@300	205	RL918T	N16@225
6,500	160	SL81	N12@200	180	SL81	N16@300	205	RL918T	N16@200
6,750	170	SL81	N12@200	195	RL918T	N16@225	210	RL918T	N16@175
7,000	180	SL81	N12@200	200	RL918T	N16@200	220	RL918T	N16@175

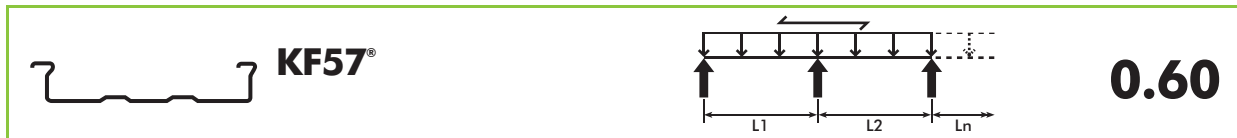
**Table 3.8.F KF57® Composite Slab Spans - Double Span 1.00 BMT**

**Deflection Criteria**

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Continuous Span 0.60 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,500	110	SL82	N12@400	110	SL82	N12@400	120	SL82	N12@400
3,750	110	SL82	N12@400	110	SL82	N12@400	125	SL92	N12@400
4,000	110	SL82	N12@400	110	SL82	N12@350	130	SL92	N12@350
4,250	110	SL82	N12@400	120	SL82	N12@325	135	SL92	N12@300
4,500	110	SL82	N12@400	130	SL92	N12@375	145	SL102	N12@325
4,750	120	SL82	N12@400	135	SL92	N12@325	150	SL102	N12@275
5,000	130	SL92	N12@400	145	SL102	N12@375	160	SL81	N12@350
5,250	140	SL92	N12@400	155	SL102	N12@350	170	SL81	N12@325
5,500	145	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@300
5,750	155	SL102	N12@400	175	SL81	N12@400	195	RL918T	N16@300
6,000	165	SL81	N12@400	185	SL81	N12@375	205	RL918T	N16@300
6,250	170	SL81	N12@400	195	RL918T	N12@200	215	RL918T	N16@300
6,500	180	SL81	N12@400	205	RL918T	N16@300	225	RL1018T	N16@275
6,750	195	RL918T	N12@225	215	RL918T	N16@300	245	RL1018T	N16@275
7,000	210	RL918T	N12@200	230	RL1018T	N16@275	250	RL1018T	N16@250

**Table 3.8.G KF57® Composite Slab Spans - Continuous Span 0.60 BMT**

### Deflection Criteria

Construction Deflection = L/240

Incremental Deflection = L/500

Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Continuous Span 0.75 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@325
3,750	110	SL82	N12@400	110	SL82	N12@400	115	SL82	N12@275
4,000	110	SL82	N12@400	110	SL82	N12@350	120	SL82	N12@250
4,250	110	SL82	N12@400	115	SL82	N12@300	130	SL92	N12@275
4,500	115	SL82	N12@400	125	SL92	N12@350	140	SL92	N12@250
4,750	120	SL82	N12@350	135	SL92	N12@325	150	SL102	N12@275
5,000	125	SL92	N12@400	145	SL102	N12@375	160	SL81	N12@350
5,250	140	SL92	N12@400	150	SL102	N12@325	175	SL81	N12@350
5,500	145	SL102	N12@400	160	SL81	N12@400	180	SL81	N12@300
5,750	155	SL102	N12@400	175	SL81	N12@400	190	RL918T	N16@300
6,000	165	SL81	N12@400	180	SL81	N12@350	205	RL918T	N16@300
6,250	175	SL81	N12@400	195	RL918T	N12@200	220	RL918T	N16@300
6,500	185	SL81	N12@400	205	RL918T	N16@300	225	RL1018T	N16@275
6,750	195	RL918T	N12@200	215	RL918T	N16@300	235	RL1018T	N16@250
7,000	205	RL918T	N12@200	225	RL1018T	N16@275	250	RL1018T	N16@250

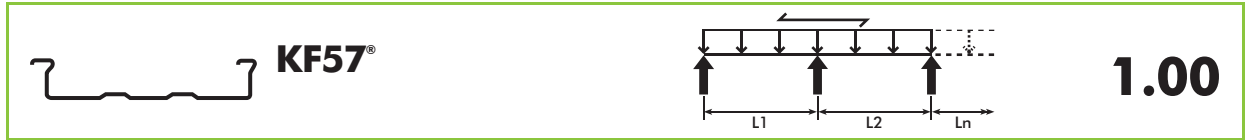
**Table 3.8.H** KF57® Composite Slab Spans - Continuous Span 0.75 BMT

**Deflection Criteria**

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.

## KF57® Composite Slab Spans Continuous Span 1.00 BMT



Span (mm)	Load = 1.5kPa			Load = 3.0 kPa			Load = 5.0kPa		
	Dcs	Mesh	Bars	Dcs	Mesh	Bars	Dcs	Mesh	Bars
1,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
1,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,500	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
2,750	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,000	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,250	110	SL82	N12@400	110	SL82	N12@400	110	SL82	N12@400
3,500	110	SL82	N12@400	110	SL82	N12@400	115	SL82	N12@375
3,750	110	SL82	N12@400	110	SL82	N12@400	120	SL82	N12@300
4,000	110	SL82	N12@400	110	SL82	N12@350	130	SL92	N12@350
4,250	110	SL82	N12@400	115	SL82	N12@300	130	SL92	N12@275
4,500	115	SL82	N12@400	125	SL92	N12@350	140	SL92	N12@250
4,750	120	SL82	N12@350	130	SL92	N12@300	150	SL102	N12@275
5,000	130	SL92	N12@400	140	SL92	N12@275	155	SL81	N12@325
5,250	140	SL92	N12@375	150	SL102	N12@325	165	SL81	N12@300
5,500	145	SL102	N12@400	160	SL81	N12@400	175	SL81	N12@275
5,750	155	SL102	N12@400	175	SL81	N12@400	185	SL81	N12@250
6,000	160	SL81	N12@400	185	SL81	N12@375	200	RL918T	N16@300
6,250	170	SL81	N12@400	195	RL918T	N12@200	220	RL918T	N16@300
6,500	180	SL81	N12@400	200	RL918T	N16@300	225	RL1018T	N16@275
6,750	195	RL918T	N12@200	215	RL918T	N16@300	235	RL1018T	N16@250
7,000	200	RL918T	N16@300	220	RL918T	N16@275	250	RL1018T	N16@250

**Table 3.8.1 KF57® Composite Slab Spans - Continuous Span 1.00 BMT**

### Deflection Criteria

Construction Deflection = L/240  
 Incremental Deflection = L/500  
 Total Deflection = L/250

Refer to the start of this section for additional parameters used to calculate the above table.